



CONTENTS

GENE AMPLIFICATION AND INSECTICIDE RESISTANCE, <i>Alan L. Devonshire and Linda M. Field</i>	1
INDUCTION OF DEFENSES IN TREES, <i>Erkki Haukioja</i>	25
SELF-SELECTION OF OPTIMAL DIETS BY INSECTS, <i>G. P. Waldbauer and S. Friedman</i>	43
EVOLUTION OF OVIPOSITION BEHAVIOR AND HOST PREFERENCE IN LEPIDOPTERA, <i>John N. Thompson and Olle Pellmyr</i>	65
AVERMECTINS, A NOVEL CLASS OF COMPOUNDS: Implications for Use in Arthropod Pest Control, <i>Joan A. Lasota and Richard A. Dybas</i>	91
TRAP CROPPING IN PEST MANAGEMENT, <i>Heikki M. T. Hokkanen</i>	119
THE SENSORY PHYSIOLOGY OF HOST-SEEKING BEHAVIOR IN MOSQUITOES, <i>M. F. Bowen</i>	139
PROSPECTS FOR GENE TRANSFORMATION IN INSECTS, <i>Alfred M. Handler and David A. O'Brochta</i>	159
BIOSYSTEMATICS OF THE CHEWING LICE OF POCKET GOPHERS, <i>Ronald A. Hellenthal and Roger D. Price</i>	185
THE FUNCTION AND EVOLUTION OF INSECT STORAGE HEXAMERS, <i>William H. Telfer and Joseph G. Kunkel</i>	205
MANAGEMENT OF DIABROTICITE ROOTWORMS IN CORN, <i>Eli Levine and Hassan Oloumi-Sadeghi</i>	229
BIOLOGICAL CONTROL OF CASSAVA PESTS IN AFRICA, <i>H. R. Herren and P. Neuenschwander</i>	257
SAMPLING AND ANALYSIS OF INSECT POPULATIONS, <i>Eizi Kuno</i>	285
ARTHROPOD BEHAVIOR AND THE EFFICACY OF PLANT PROTECTANTS, <i>Fred Gould</i>	305
SENSILLA OF IMMATURE INSECTS, <i>Russell Y. Zacharuk and Vonnice D. Shields</i>	331

(continued) vii

viii CONTENTS (Continued)

TRANSMISSION OF RETROVIRUSES BY ARTHROPODS, <i>L. D. Foil and C. J. Issel</i>	355
ECOLOGY AND MANAGEMENT OF TURFGRASS INSECTS, <i>Daniel A. Potter and S. Kristine Braman</i>	383
BEHAVIORAL ECOLOGY OF PHEROMONE-MEDIATED COMMUNICATION IN MOTHS AND ITS IMPORTANCE IN THE USE OF PHEROMONE TRAPS, <i>Jeremy N. McNeil</i>	407
WHITEFLY BIOLOGY, <i>David N. Byrne and Thomas S. Bellows, Jr.</i>	431
<i>Aedes albopictus</i> IN THE AMERICAS, <i>Karamjit S. Rai</i>	459
ENVIRONMENTAL IMPACTS OF CLASSICAL BIOLOGICAL CONTROL, <i>Francis G. Howarth</i>	485
MATERNAL EFFECTS IN INSECT LIFE HISTORIES, <i>Timothy A. Mousseau and Hugh Dingle</i>	511
BIONOMICS OF LEAF-MINING INSECTS, <i>H. A. Hespenheide</i>	535
VEGETATIONAL DIVERSITY AND ARTHROPOD POPULATION RESPONSE, <i>D. A. Andow</i>	561
LYME BORRELIOSES: Relation of Its Causative Agent to Its Vectors and Hosts in North America and Europe, <i>R. S. Lane, J. Piesman, and W. Burgdorfer</i>	587
ECOLOGICAL AND EVOLUTIONARY SIGNIFICANCE OF PHORESY IN THE ASTIGMATA, <i>M. A. Houck and B. M. OConnor</i>	611
INSECT HERBIVORY ON EUCALYPTUS, <i>C. P. Ohmart and P. B. Edwards</i>	637
OFF-HOST PHYSIOLOGICAL ECOLOGY OF IXODID TICKS, <i>Glen R. Needham and Pete D. Teel</i>	659
INDEXES	
Subject Index	683
Cumulative Index of Contributing Authors, Volumes 27-36	692
Cumulative Index of Chapter Titles, Volumes 27-36	695

